

## KIAA0101 Protein, Human (His)

<b>Cat. No.:</b>	HY-P75900
<b>Synonyms:</b>	PCNA-associated factor; OEATC-1; PAF15; p15PAF; PCLAF; KIAA0101; NS5ATP9; PAF
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q15004-1 (M1-E111)
<b>Gene ID:</b>	9768
<b>Molecular Weight:</b>	Approximately 17 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M V R T K A D S V P    G T Y R K V V A A R    A P R K V L G S S T    S A T N S T S V S S</p> <p>R K A E N K Y A G G    N P V C V R P T P K    W Q K G I G E F F R    L S P K D S E K E N</p> <p>Q I P E E A G S S G    L G K A K R K A C P    L Q P D H T N D E K    E</p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>KIAA0101 Protein, a PCNA-binding protein, plays a pivotal role as a DNA repair regulator during DNA replication. Upon DNA damage, its interaction with PCNA is disrupted, promoting the association between monoubiquitinated PCNA and the translesion DNA synthesis DNA polymerase eta (POLH) at stalled replisomes. This interaction facilitates the bypass of replication-fork-blocking lesions, ensuring the continuity of DNA replication under challenging conditions. Beyond its involvement in DNA repair processes, KIAA0101 also functions as a regulator of centrosome number. The protein interacts with PCNA, particularly when monoubiquitinated at Lys-15 and Lys-24, and additionally forms associations with isoform 2/p33ING1b of ING1 and BRCA1, suggesting its participation in diverse cellular pathways.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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